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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/711,847	10/08/2004	Alessandra Mazzeo	1673.01 5846	
21901 SMITH HOPE	7590 01/17/2008 Ν ΡΔ		EXAMINER	
180 PINE AVENUE NORTH			YU, MELANIE J	
OLDSMAR, F	L 34677		ART UNIT PAPER NUMBER	
			1641	
			MAIL DATE	DELIVERY MODE
			01/17/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Anntination No	Applicant/a)
•	Application No.	Applicant(s)
Office Action Summans	10/711,847	MAZZEO ET AL.
Office Action Summary	Examiner	Art Unit
	Melanie Yu	1641
The MAILING DATE of this communication app Period for Reply	lears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timulated and will expire SIX (6) MONTHS from a cause the application to become ABANDONE!	N. nely filed the mailing date of this communication. D. (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 11 Oct This action is FiNAL. 2b) ☑ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ⊠ Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) 1 and 2 is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 3-14 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	awn from consideration.	,
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on <u>08 October 2004</u> is/are: Applicant may not request that any objection to the orection (Replacement drawing sheet(s) including the correction of the orection (11) The oath or declaration is objected to by the Examine (12).	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	4) 🔀 Interview Summary Paper No(s)/Mail Da 5) 🔲 Notice of Informal P	ate. <u>12/9</u> atent Application
Paper No(s)/Mail Date	6) 🔀 Other: <u>See Continue</u>	ation Sheet.

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Continuation of Attachment(s) 6). Other: proposed amendment for allowance.

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DETAILED ACTION

1. Applicant's amendments and arguments filed 11 October 2007 have been entered.

Claims 5, 7, 8, 10 and 11 have been rejoined with the examined claims.

Claim Objections

1. Claims 3-14 are objected to because of the following informalities: claim 3 recites the phrase "constituted by" which is not consistent with appropriate transitional claim language, the phrase should be changed to "comprising". Claim 2 also recites the rod introduced directly into an entire sample. However, the claim should be clarified by stating that the rod comprising the adsorbent cylinders is capable of being inserted into the test tube to provide the sample introduction. Appropriate correction is required.

Claims 6, 9 and 12-14 recite the phrase "characterized by the fact that", which is not consistent with proper transitional language. The phrase should be changed to "wherein".

Appropriate correction is required.

With respect to claims 6-9 the term "receives" should be changed to supports.

New claim 14 appears to be the same as new claim 12 and should be canceled.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

1. Claims 3-14 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 3 recites that the support with the rod with the adsorbent cylinders is positioned above a microplate furnished with microwells. However, it is unclear whether the microplate with microwells is intended to be part of the device or whether only the support with the rods is intended to be the device.

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Interview Summary

2. Applicant's representative was contacted on 9 December 2007 regarding the issues under 35 USC 112, second paragraph, however no agreement was reached. See the attached proposed amendment for allowance for the corrections required in order to place the claims in condition for allowance.

Allowable Subject Matter

3. Claims 3-14 would be allowable if rewritten or amended to overcome the objections and rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action. The prior art fails to teach a rod comprising adsorbent cylinders, wherein the rod and adsorbent cylinders are capable of being inserted into a test tube. Hubscher et al. teach small adsorbent cylinders on a rod and connected to a support but the adsorbent cylinders taught by Hubscher et al. extend from the rod at a distance that would render the rod incapable of being inserted into a test tube. The cylinders of Hubscher et al. extend from the rod at a distance of 3.375 inches (col. 7, lines 27-30). One having ordinary skill in the art would recognize that a "large" test tube has a diameter significantly smaller than the distance of the cylinders extending from the rod of Hubscher et al. Kawashima et al. (US 4,025,391) teach a large test tube having a diameter of 5 cm (almost 2 inches) at column 3, lines 33-37. Terasawa et al. (US 4,912,043) teach a large test tube having a diameter of 24 mm (almost 1 inch) at column 5, lines 38-40. The test tube diameters taught by these two references are commonly accepted for "large" test tubes, and therefore the 3.375 inch length cylinders attached to the rod of Hubscher et al. would not be capable of fitting into even a large test tube in the prior art.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie Yu whose telephone number is (571) 272-2933. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on (571) 272-0823. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Melanie Yu Patent Examiner

Milas 2

Art Unit 1641

LONG V. LE (2/21/27)
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600

Proposed Amendment for Allowance – 10/711,847

- 1. (cancelled)
- 2. (cancelled)
- 3. An assay device for simultaneously detecting different antibodies and antigens via immunoenzimatic tests and ELISA Enzyme Linked ImmunoSorbent Assay, the device comprising:
 - adsorbent cylinders on which immunocomplexes form;
 - a rod bearing the adsorbent cylinders at positions which protrude a distance from the rod, wherein the rod bearing the cylinders thereon is able to be inserted into a test tube containing a sample so that the samples can be directly introduced to the cylinders;
 - a label positioned on the rod to identify the sample collected in the test tube;
 - a support for carrying a plurality of the rods bearing the cylinders;
 - a microplate having a plurality of wells filled with an ELISA reagent, wherein the
 wells are positioned at modular distances and the positions of the adsorbent
 cylinders on the rod correspond to the plurality of wells at the modular distances
 and the adsorbent cylinders penetrate into the wells when the support is positioned
 above the microplate.
- 4. A device according to claim 3, wherein the support is a grill formed of at least two parallel horizontal sides and of at least two vertical parallel sides, the grill has a handle for transport and lifting, and a plurality of notches on the horizontal and vertical sides for situating the rods.

- 5. (Rejoined) A device according to claim 4, wherein the grill supports twelve rods, and each of the rods bears eight adsorbent cylinders and the microplate comprises ninety-six wells positioned in an array of twelve columns by eight lines at the modular distances.
- 6. A device according to claim 4, wherein the grill supports eight rods and each of the rods bears twelve adsorbent cylinders, the grill is positioned symmetrically above the microplate, and the microplate comprises ninety-six wells arranged in twelve columns and eight lines at the modular distances.
- 7. (Rejoined) A device according to claim 4, wherein the grill supports twenty-four rods each of the rods bearing four cylinders, the rods are arranged symmetrically on the grill and the grill is positioned symmetrically above the microplate, wherein the microplate comprises ninety-six wells arranged in twelve columns and eight lines at the modular distances.
- 8. (Rejoined) A device according to claim 4, wherein the grill supports sixteen rods arranged symmetrically each bearing six cylinders, the rods are arranged symmetrically on the grill, and the grill is positioned above the microplate, wherein the microplate comprises ninety-six wells arranged in twelve columns and eight lines at the modular distances.
- 9. A device according to claim 3, wherein the microplate is a microstrip comprising twelve wells.
- 10. A device according to claim 3, wherein the rod bearing the cylinders comprises a place to position a card bearing the identification code of the sample, wherein the card can be removed and inserted into a specific holder on a cover or lid for the test tube comprising a sample and the cover or lid also comprises an external site for the card.

- 11. A device according to claims 3 and 9, wherein the rods, small cylinders, test tubes and microstrip are constructed entirely for carrying out the test in the field or in non-specialist surgeries or laboratories.
- 12. A device according to claim 3, wherein each adsorbent cylinder of the device is sensitized with a different antigen for antibody detection assay or with a different antibody for antigen detection assay, with the exception of one adsorbent cylinder that is not sensitized.
- 13. A device according to claim 3, wherein each adsorbent cylinder of the device is sensitized with a different antibody for antigen detection assay, with the exception of one adsorbent cylinder that is not sensitized.
- 14. (cancelled)